

WHAT IS CLAIMED IS:

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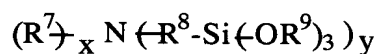
1. An adhesive composition comprising
 - a) i) a trialkoxysilane functional polyether or polyurethane wherein the polyether or polyurethane has a weight average molecular weight of 6000 or greater and a dialkyltin carboxylate or dialkyltin alcoholate; or
 - ii) a dialkoxysilane functional polyether or polyurethane and a dialkyltin alcoholate; and

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- b) a primary or secondary amino straight chain alkyl trialkoxysilane; wherein the dialkyltin carboxylate or dialkyltin alcoholate is present in an effective amount to facilitate bonding of the adhesive to a substrate of from about 0.1 to about 1.0 percent by weight based on the weight of the adhesive and the primary or secondary amino straight chained alkyl trialkoxysilane is present in an amount which is effective to facilitate bonding of the adhesive to a substrate wherein the amount is from about 0.5 to about 1.2 percent by weight.

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2. The composition according to Claim 1 wherein the amino alkyl trialkoxysilane corresponds to the formula



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wherein

R^7 is independently in each occurrence a straight chain alkyl or aminoalkyl;

R^8 is independently in each occurrence a straight chain alkylene group;

R^9 is independently in each occurrence an alkyl group;

x is independently in each occurrence an integer of 0 or 1; and

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y is an integer of 1 or 2;

wherein $x+y$ is 2 or less.

Sub 1

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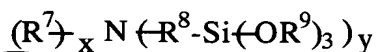
3. The adhesive of Claim 2 wherein
R⁷ is independently in each occurrence C₁₋₆ alkyl or C₁₋₆ alkylamino;
R⁸ is independently in each occurrence C₁₋₆ alkylene; and
R⁹ is independently in each occurrence C₁₋₆ alkyl.
4. The adhesive of Claim 3 wherein
R⁷ is independently in each occurrence C₁₋₃ alkyl or C₁₋₃ alkylamino;
R⁸ is independently in each occurrence C₂₋₄ alkylene; and
R⁹ is C₁₋₂ alkyl.
5. The adhesive of Claim 3 wherein the
R⁷ is ethylamino;
R⁸ is propylene; and
R⁹ is methyl.
6. The adhesive of Claim 5 wherein
x is 0 and
y is 2.
7. The adhesive of Claim 2 wherein the catalyst is a dialkyltin alcoholate.
8. The adhesive of Claim 7 wherein the catalyst is present in an amount of
from about 0.1 to about 0.5 percent by weight.
9. The adhesive of Claim 8 wherein the catalyst is a dialkyltin bis
acetylacetonate.
10. An adhesive composition according to Claim 1 wherein the
trialkoxysilane functional polyether or polyurethane has a polyether or polyurethane
backbone having a weight average molecular weight of about 10,000 or greater.
11. A method of bonding a window into a structure which comprises
applying to a window or the window frame an adhesive according to Claim 1; contacting

the window and the window from a structure with the adhesive located between the window and the structure and allowing the adhesive to cure.

12. A method of bonding according to Claim 11 wherein the window structure has a coating and the coating is not primed prior to being contacted with the adhesive.

13. The method according to Claim 11 wherein the window has a ceramic frit deposited on the surface to be contacted with the adhesive and the window is not primed prior to being contacted with the adhesive.

14. The method according to Claim 11 wherein the aminoalkyl trialkoxysilane corresponds to the formula



wherein

R^7 is independently in each occurrence a straight chain alkyl or aminoalkyl;

R^8 is independently in each occurrence a straight chain alkylene group;

R^9 is independently in each occurrence an alkyl group;

X is independently in each occurrence an integer of 0 or 1; and

Y is an integer of 1 or 2.

15. The method of Claim 14 wherein

R^7 is independently in each occurrence C_{1-3} alkyl or C_{1-3} alkylamino;

R^8 is independently in each occurrence C_{2-4} alkylene; and

R^9 is independently in each occurrence C_{1-2} alkyl.

16. The method of Claim 14 wherein the

R^7 is ethylamino;

R⁸ is propylene; and

R⁹ is ethyl or methyl.

17. The method of Claim 16 wherein

x is 0 and

y is 2.

18. The method of Claim 14 wherein the catalyst is a dialkyltin alcoholate.

19. The method of Claim 18 wherein the catalyst is present in an amount of from about 0.1 to about 0.5 percent by weight.

20. The method of Claim 18 wherein the catalyst is a dialkyltin bis acetylacetonate.

21. The method according to Claim 14 wherein the trialkoxysilane functional polyether or polyurethane has a polyether or polyurethane backbone having a weight average molecular weight of about 10,000 or greater.